COURSE CRITIQUE

Please rate 1-10 (poor to excellent respectively) by placing a check on the scale given. Comment below question where indicated. Use back of pages if needed.

FORM   RATING

1. Format of the course was intended to accommodate to a rough 5% time commitment and to provide for a full-day class treatment of a particular topical area. Please rate:

1 day/month	1	10
4 hours/every 2 weeks	1	2

Other Alternatives: This depends on location. Less travel time is associated with one day sessions. When travel is [____] miles one way this is a   STAT significant factor.

2. The point of the applications session was to illustrate where current course material was utilized in the real world. Please rate effectiveness:

Material relevance	1	8
Applications speakers	1	8

3. The purpose of the homework was to exercise topical material with about 8 hours of work. Please rate these:

3 one-hour problems	1	5
20 ten-minute problems	1	5

4. The goal of the intermediate 2-hour session was to give a "keep-alive" exercise in the topical area. Please rate these alternatives for continuity:

Problem-solving session	1	5
Second applications session	1	5

STAT Like this idea , but it envolves excessive travel in some cases. In my case my duty station is [____] from Hqrs. This envolves [____] STAT round trip. This is not a determing factor in attending sessions, however it must be taken in consideration especially in winter.

5. The class was intended to be weighted towards a blackboard-pictorial development in order to convey modelling concepts more readily. Please rate:

Diagrammatic presentation	1	8	10
Mix of vuegraphs & chalkboard	1	8	10

6. The symbology of various systems disciplines is confusing due to the separate source developments. An effort at consistency was made in order to permit cross interpretation within the technical literature. Please rate effectiveness:

Common symbology	1	7	10
Example illustrations	1	5	10

7. The intent of notes and handout material furnished throughout the month was to tie course topics to technical literature. Please rate:

Effectiveness of handout reprints	1	9	10
Effectiveness of specially developed handouts	1	8	10

8. General impedimenta such as same room same day/month, same format, etc., for providing continuity. Please rate:

Room	1	7	10
Day	1	10	10
Daily sequence	1	9	10

9. The course was designed to present a semi-unitary approach to several disciplines. Please rate applicable areas 1-10:

Communications	10	Optics	9	Acoustics	10
Hum. Eng. & Biomed.	2	Seismics	1	Pictorial	5
Computer Technology	6				

SUBSTANCE   RATING

10. The course material was split 50% basic math tools and 50% in
commonality subsystems. (Those subsystems which are pervasive
in designs across disciplines.) The sequence was that recommended
by ASEE for math modelling related to several fields. Please rate:

Balance of material   1 _____ 8 _____ 10
Total content   1 _____ 8 _____ 10

The sequence is given below for each session. Please give your rating
for both material content and for the applications given both formally
and in the course of concept development.

11. Session I; Vectorial Representation; matrices, num. analysis,
linear systems, sampling, manipulation

Material   1 ___ NOT ___ 10
Application   1 __ ATTENDED __ 10

12. Session II; Transforms; convolution, Fourier and Laplace
transformations, Z transforms, impulse response, numerical
analysis.

Material   1 _____ 7 _____ 10
Application   1 _____ 10 _____ 10

13. Session III; Probability and Statistics; random var.,
expectancy, density functions, distributions, confidence limits

Material   1 _____ 8 _____ 10
Application   1 _____ 9 _____ 10

14. Session IV; Stochastic Variable; stationarity, ergodicity,
moments, correlation, power spectral density, white noise,
square law detection.

Material   1 _____ 8 _____ 10
Application   1 _____ 10 _____ 10

15. Session V; Signal Detection; value, cost liklihood ratio detection, Bayes Law.

	1		10
Material	1	9	10
Application	1	10	10

16. Session VI; Detector Subsystems I; receiver operating characteristics, detection situations, S/N ratio, data smoothing and prediction.

Material	1	8	10
Application	1	10	10

17. Session VII; Detector Subsystems II; non-white noise, whitening, matched filtering, threshold, detectability Markov chains.

Material	1	7	10
Application	1	7	10

18. Session VIII; Spatial Processing I; space-time relationships, spatial filtering, correlation matrix for signal and noise.

Material	1	8	10
Application	1	9	10

19. Session IX Spatial Processing II; optimum array, shading, optimum filtering, lobe periodicity.

This session not attended. Rating is from study of the handouts only.

Material	1	9	10
Application	1	6	10

20. Session X; Servomechanisms and Control; closed loop systems, regulation, feedback, root locus, stability criteria, bang-bang systems.

Material	1	9	10
Application	1	9	10

21. Session XI; Modulation; analog modulation, AM, FM, PM, supressed band modulation, effects of index of modulation noise immunity.

Material	1	8	10
Application	1	10	10

22. Session XII; Modulation; PPM, PWM, PCM, error correction codes, noise immunity, entropy. (Content Only)

Material	1	9	10
Application	1	9	10

COURSE CRITIQUE

Please rate 1-10 (poor to excellent respectively) by placing a check on the scale given. Comment below question where indicated. Use back of pages if needed.

FORM   RATING

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                                        1 day/month   1 _____/___1
                                        4 hours/every 2 weeks 1 _____/_1

Other Alternatives:

2. The point of the applications session was to illustrate where current course material was utilized in the real world. Please rate effectiveness:

                                        Material relevance   1 _____/___1
                                        Applications speakers 1 _____/_1

3. The purpose of the homework was to exercise topical material with about 8 hours of work. Please rate these:

                                        3 one-hour problems   1 _____/____1
                                        20 ten-minute problems 1 _____↓_____1

4. The goal of the intermediate 2-hour session was to give a "keep-alive" exercise in the topical area. Please rate these alternatives for continuity:

                                        Problem-solving session   1 _____✓__1
                                        Second applications session 1 _____↓___1

5. The class was intended to be weighted towards a blackboard-pictorial development in order to convey modelling concepts more readily. Please rate:

Diagrammatic presentation   1 ____✓____ 10

Mix of vuegraphs & chalkboard   1 ____✓____ 10

6. The symbology of various systems disciplines is confusing due to the separate source developments. An effort at consistency was made in order to permit cross interpretation within the technical literature. Please rate effectiveness:

Common symbology   1 ____✓ 10

Example illustrations   1 ____✓ 10

7. The intent of notes and handout material furnished throughout the month was to tie course topics to technical literature. Please rate:

Effectiveness of handout reprints   1 ____✓ 10

Effectiveness of specially developed handouts   1 ____✓ 10

8. General impedimenta such as same room same day/month, same format, etc., for providing continuity. Please rate:

Room   1 ✓____ 10

Day   1 ____✓ 10

Daily sequence   1 ____✓ 10

9. The course was designed to present a semi-unitary approach to several disciplines: Please rate applicable areas 1-10:

Communications	10	Optics	1	Acoustics	1
Hum. Eng. & Biomed.	3	Seismics	1	Pictorial	1
Computer Technology	3				

SUBSTANCE   RATING

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Balance of material   1 _____|____✓ 10
Total content   1 _____|__✓ 10

The sequence is given below for each session. Please give your rating for both material content and for the applications given both formally and in the course of concept development.

11. Session I; Vectorial Representation; matrices, num. analysis, linear systems, sampling, manipulation

Material   1 _____|___✓ 10
Application   1 _____|__✓ 10

12. Session II; Transforms; convolution, Fourier and Laplace transformations, Z transforms, impulse response, numerical analysis.

Material   1 _____|___✓ 10
Application   1 _____|__✓ 10

13. Session III; Probability and Statistics; random var., expectancy, density functions, distributions, confidence limits

Material   1 _____|___✓ 10
Application   1 _____|__✓ 10

14. Session IV; Stochastic Variable; stationarity, ergodicity, moments, correlation, power spectral density, white noise, square law detection.

Material   1 _____|___✓ 10
Application   1 _____|__✓ 10

15. Session V; Signal Detection; value, cost liklihood ratio
detection, Bayes Law.

                                 Material   1 _____ ✓ 10

                                   Application   1 _____ ✓ 10

16. Session VI; Detector Subsystems I; receiver operating
characteristics, detection situations, S/N ratio, data smoothing
and prediction.

                                   Material   1 _____ / 10

                                   Application   1 _____ / 10

17. Session VII; Detector Subsystems II; non-white noise,
whitening, matched filtering, threshold, detectability Markov
chains.

                                   Material   1 _____ / 10

                                   Application   1 _____ ✓ 10

18. Session VIII; Spatial Processing I; space-time relationships, spatial
filtering, correlation matrix for signal and noise.

                                   Material   1 _____ / 10

                                   Application   1 _____ / 10

19. Session IX Spatial Processing II; optimum array, shading, optimum
filtering, lobe periodicity.

                                   Material   1 _____ ✓ 10

                                   Application   1 _____ / 10

20. Session X; Servomechanisms and Control; closed loop systems, regulation, feedback, root locus, stability criteria, bang-bang systems.

Material	1	10
Application	1	10

21. Session XI; Modulation; analog modulation, AM, FM, PM, supressed band modulation, effects of index of modulation noise immunity.

Material	1	10
Application	1	10

22. Session XII; Modulation; PPM, PWM, PCM, error correction codes, noise immunity, entropy. (Content Only)

Material	1	10
Application	1	10

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                              1 day/month   1 _____✓___ 10
                              4 hours/every 2 weeks 1 _____✓___ 10

Other Alternatives:

2. The point of the applications session was to illustrate where current course material was utilized in the real world. Please rate effectiveness:

                              Material relevance   1 _____✓_____ 10
                              Applications speakers 1 _____✓___ 10

3. The purpose of the homework was to exercise topical material with about 8 hours of work. Please rate these:

                              3 one-hour problems   1 _____✓_____ 1
                              20 ten-minute problems 1 _____✓_____ 1

4. The goal of the intermediate 2-hour session was to give a "keep-alive" exercise in the topical area. Please rate these alternatives for continuity:

                              Problem-solving session   1 _____✓___ 1
                              Second applications session 1 _____✓___ 1

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Mix of vuegraphs & chalkboard	1 ___/___	10

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Room	1 ___/___	10
Day	1 ___/___	10
Daily sequence	1 ___/___	10

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Communications _8_	Optics _7_	Acoustics _6_
Hum. Eng. & Biomed. _4_	Seismics _6_	Pictorial _4_
Computer Technology _4_		

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Total content   1 ——————— 10

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linear systems, sampling, manipulation

Material   1 ——————— 10
Application   1 ——————— 10

12. Session II; Transforms; convolution, Fourier and Laplace
transformations, Z transforms, impulse response, numerical
analysis.

Material   1 ——————— 10
Application   1 ——————— 10

13. Session III; Probability and Statistics; random var.,
expectancy, density functions, distributions, confidence limits

Material   1 ——————— 10
Application   1 ——————— 10

14. Session IV; Stochastic Variable; stationarity, ergodicity,
moments, correlation, power spectral density, white noise,
square law detection.

Material   1 ——————— 10
Application   1 ——————— 10

15. Session V; Signal Detection; value, cost liklihood ratio detection, Bayes Law.

Material   1 _____|_____/ 10
Application   1 _____|____/ 10

16. Session VI; Detector Subsystems I; receiver operating characteristics, detection situations, S/N ratio, data smoothing and prediction.

Material   1 _____|_____/ 10
Application   1 _____|____/ 10

17. Session VII; Detector Subsystems II; non-white noise, whitening, matched filtering, threshold, detectability Markov chains.

Material   1 _____|_____/ 10
Application   1 _____|____/ 10

18. Session VIII; Spatial Processing I; space-time relationships, spatial filtering, correlation matrix for signal and noise.

Material   1 _____|_____/ 10
Application   1 _____|____/ 10

19. Session IX Spatial Processing II; optimum array, shading, optimum filtering, lobe periodicity.

Material   1 _____|_____/ 10
Application   1 _____|____/ 10

20. Session X; Servomechanisms and Control; closed loop systems, regulation, feedback, root locus, stability criteria, bang-bang systems.

Material   1 _____ 10
Application   1 _____ 10

NO COMMENT

21. Session XI; Modulation; analog modulation, AM, FM, PM, supressed band modulation, effects of index of modulation noise immunity.

Material   1 _____ 10
Application   1 _____ 10

NO COMMENT

22. Session XII; Modulation; PPM, PWM, PCM, error correction codes, noise immunity, entropy.   (Content Only)

Material   1 _____ 10
Application   1 _____ 10

NO COMMENT

QUEST #

Question #	Part #	Total Rating (Σr)	# responses ($\#$)	$\bar{R}$ ($\frac{\Sigma r}{\#}$)	σ_R ($\frac{\Sigma|r-\bar{R}|}{\#}$)
1	a	71	12	5.9	2.0
	b	77	11	7.0	1.9
2	a	96	13	7.3	1.3
	b	105	13	8.0	1.0
3	a	51	11	4.6	0.9
	b	79	12	6.6	1.4
4	a	53	10	5.3	2.1
	b	46	10	4.6	1.6
5	a	100	14	7.1	1.4
	b	87	12	7.2	1.3
6	a	86	12	7.2	1.6
	b	79	12	6.6	1.7
7	a	105	14	7.5	1.8
	b	105	14	7.5	2.0
8	a	67	13	5.1	1.7
	b	97	13	7.5	2.1
	c	89	13	6.9	2.1
9	a	107	12	8.9	0.9
	b	51	11	4.6	1.6
	c	64	12	5.3	1.4
	d	63	11	5.7	1.9
	e	53	10	5.3	2.2
	f	59	10	5.9	1.7
	g	40	9	4.4	1.4
10	a	96	13	7.4	1.7
	b	97	13	7.5	1.7
11	a	73	9	8.1	1.0
	b	65	9	7.2	1.7
12	a	90	12	7.5	1.3
	b	84	12	7.0	1.7
13	a	88	12	7.3	1.8
	b	82	12	6.8	1.7
14	a	88	12	7.3	1.4
	b	84	12	7.0	1.8
15	a	101	13	7.7	0.8
	b	86	12	7.2	1.1
16	a	58	7	8.3	0.9
	b	59	7	8.4	1.0
17	a	56	7	8.0	0.4
	b	54	7	7.7	0.9
18	a	55	7	7.8	0.7
	b	49	7	7.0	1.0
19	a	72	9	8.0	0.9
	b	63	8	7.9	1.1
20	a	67	8	8.4	0.6
				7.4	1.4
21	a	69	9	7.6	0.5
	b	54	7	7.7	0.9

(OVER)

QUES #	PART #	Σr	q	$\bar{R}$	σ_R
22	a	43	5	8.6	0.5
	b	25	3	8.3	0.4

QUESTIONS 10 THROUGH 22 PART A.	Σr	q	$\bar{R}\left(\dfrac{\Sigma \bar{R}}{q}\right)$	σ_R
	956	113	7.77	.34

QUESTIONS 10 THROUGH 22 PART B	Σr	q	$\bar{R}\left(\dfrac{\Sigma r}{q}\right)$	σ_R
	854	116	7.36	.40